

4 specification from a network application;
5 means for transmitting a transaction request from the transactional application;
6 and
7 means for processing the transaction request, including performing object routing.

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~~56.~~ (New) The switch as claimed in claim ¹~~55~~, wherein the means for switching further
2 comprises:

3 means for receiving the user specification;
4 means for enabling a switch to the transactional application; and
5 means for activating the transactional application.

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~~57.~~ (New) The switch as claimed in claim ²~~56~~, wherein means for activating the
2 transactional application further includes means for creating a transaction link
3 between the user application and the transactional application.

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~~58.~~ (New) The switch as claimed in claim ¹~~57~~, wherein the means for processing the
2 transaction request further comprises means for coupling the means for
3 transmitting to a host containing data corresponding to the transaction.

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~~59.~~ (New) The switch as claimed in claim ⁴~~58~~, further including means for activating
2 an agent to create a transaction link between the user application and the
3 transactional application.

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~~60.~~ (New) The switch as claimed in claim ¹~~59~~, further including a means for
2 automated state management and service network control.

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~~61.~~ (New) The switch as claimed in claim ¹~~60~~, further including a means for

2 automating a transaction from beginning to end in real time.

1 ~~8~~ 62. (New) The switch as claimed in claim ~~55~~¹, further including a means for keeping a
2 transaction captive for aggregation of content associated with the transaction.

1 ~~9~~ 63. (New) The switch as claimed in claim ~~55~~¹, further including a means for
2 intelligently connecting a transaction for usage-based services.

1 ~~10~~ 64. (New) The switch as claimed in claim ~~55~~¹, further including a means for
2 connecting the subscriber to multiple content publishers backend network nodes.

1 ~~11~~ 65. (New) The switch as claimed in claim ~~55~~¹, further including a means for dynamic
2 virtual packaging.

1 ~~12~~ 66. (New) The switch as claimed in claim ~~55~~¹, further including a means for creating
2 a value-added service specific virtual private network of remote service partners.

1 ~~13~~ 67. (New) A method for performing real-time transactions on a value-added network,
2 comprising:

3 providing a transactional application selection mechanism to allow a user to select
4 a transactional application, wherein the transactional application selection
5 mechanism is associated with a Web server and a Web page;

6 receiving a request at the Web server in response to providing the transactional
7 application selection mechanism, wherein the request is a request to use the
8 transactional application to perform an interactive real-time transaction;

9 switching to the transactional application in response to receiving the request, by
10 instructing the Web server to hand over the request to the transactional
11 application; and

12 requesting transaction data from one or more other computer systems connected
13 with the value-added network with the transactional application, wherein the
14 transaction data allows the user to perform the interactive real-time transaction on
15 the value-added network.

1 ¹⁴~~68~~. (New) The method of claim ¹³~~67~~, wherein switching includes using a routing switch
2 within the application layer of the OSI model to perform application layer routing.

1 ¹⁵~~69~~. (New) The method of claim ¹³~~67~~, wherein switching further comprises:
2 enabling a switch to the transactional application; and

3 activating the transactional application.

1 ¹⁶~~70~~. (New) The method of claim ¹⁵~~69~~, wherein said activating the transactional
2 application further includes creating a transaction link between a network
3 application associated with the user and the transactional application.

1 ¹⁷~~71~~. (New) The method of claim ¹³~~67~~, wherein the one or more other computer systems
2 connected with the value-added network includes a data repository, the method
3 further including retrieving data from the data repository by multi-protocol object
4 routing.

1 ¹⁸~~72~~. (New) The method of claim ¹⁷~~71~~, further including using the Web server to process
2 the request for transaction data and retrieve data corresponding to the transaction
3 from the data repository.

1 ¹⁹~~73~~. (New) The method of claim ¹⁷~~71~~, wherein the data repository is a data repository to
2 store banking data, wherein retrieving data includes retrieving banking data to
3 complete a banking transaction.

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(New) The method of claim 67, wherein the value-added network is a service specific virtual private network of remote service partners operating within an IP-based facilities network, wherein the service specific virtual private network is managed by using distributed control.

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(New) The method of claim 67, wherein the transactional application uses switching and object routing to execute the transaction.

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(New) The method of claim 67, further including using the transactional application to keep a transaction captive for aggregation of content associated with the transaction.

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(New) The method of claim 67, further including using multi-protocol object routing and a security mechanism to perform the transaction.

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(New) The method of claim 67, further including executing the transaction in a distributed computing environment, including creating a plurality of skeleton objects on a computer system remote to the user, registering the plurality of skeleton objects in a name server associated with the remote computer system, and transferring one or more stub objects to a computer system local to the user, wherein the one or more stub objects are derived from the plurality of skeleton objects.

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(New) The method of claim 67 further including executing the transaction by using a Distributed Online Service Information Base.

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(New) A machine-readable medium having stored thereon data representing sequences of instructions, for performing real-time transactions on a value-added network, which when executed cause a machine to:

4 provide a transactional application selection mechanism to allow a user to select a
5 transactional application, wherein the transactional application selection
6 mechanism is associated with a Web server and a Web page;

7 receive a request at the Web server in response to providing the transactional
8 application selection mechanism, wherein the request is a request to use the
9 transactional application to perform an interactive real-time transaction;

10 switch to the transactional application in response to receiving the request, by
11 instructing the Web server to hand over the request to the transactional
12 application; and

13 request transaction data from one or more other computer systems connected with
14 the value-added network with the transactional application, wherein the
15 transaction data allows the user to perform the interactive real-time transaction on
16 the value-added network.

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27. (New) The machine-readable medium of claim ²⁶80, wherein the instructions for
2 switching further comprise instructions causing the machine to:

3 enable a switch to the transactional application; and

4 activate the transactional application, including creating a transaction link
5 between a network application associated with the user and the transactional
6 application.

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28. (New) The machine-readable medium of claim ²⁷81, wherein the instructions to
2 switch further include instructions causing the machine to use a routing switch
3 within the application layer of the OSI model to perform application layer routing.

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1 83. (New) The machine-readable medium of claim 26, wherein the one or more other
2 computer systems connected with the value-added network includes a data
3 repository, and wherein the instructions further include instructions causing the
4 machine to retrieve data from the data repository by multi-protocol object routing.

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1 84. (New) The machine-readable medium of claim 26, wherein the instructions
2 further comprise instructions causing the machine to execute the transaction in a
3 distributed computing environment, including instructions to create a plurality of
4 skeleton objects on a computer system remote to the user, register the plurality of
5 skeleton objects in a name server associated with the remote computer system,
6 and transfer one or more stub objects to a computer system local to the user,
7 wherein the one or more stub objects are derived from the plurality of skeleton
8 objects.
